## Parasite Prognosticators Experimental Design Diagram

Title: The Effect of Remedies on Soft Scale Insects on Dieffenbachia

**Plants** 

**Hypothesis:** Alternate Hypothesis

Store bought pesticides will be more effective than home remedies

in removing Scale Insects.

**Null Hypothesis** 

Home remedies and store bought pesticides will have the same

effect on the Scale Insects

**Independent Variable:** Type of remedy

Levels of Remedies	Home Remedy (70% alcohol solution)	Store Bought Pesticide (1:100 solution of horticultural oil and water)	No Remedy (Control Leaf for Oil)	No Remedy (Control for Alcohol)
# of Trials	1	1	1	1
Control			Control	Control

**Dependent Variable**: Decrease in honeydew production compared to the control on each

leaf

**Operational Definition of the** 

**Dependent Variable**:

Difference in mass of honeydew between remedy and control side.

Constants: Placement of plant

Plant (Dieffenbachia)

Placement of plastic trays

Soil

Ratio of each of the remedies (1:100 for horticultural oil:water;

87.5:12.5 for alcohol:water)

Sunlight